Europäisches Patentamt

European Patent Office

Office européen des brevets



EP 0 725 079 A1

(12)

EUROPEAN PATENT APPLICATION

(43) Date of publication:

07.08.1996 Bulletin 1996/32

(51) Int Cl.6: C07K 14/47

(21) Application number: 96300613.5

(22) Date of filing: 29.01.1996

(84) Designated Contracting States:
AT BE CH DE DK ES FR GB GR IE IT LI LU NL PT
SF

(30) Priority: 31.01.1995 US 381048 06.02.1995 US 383638 22.06.1995 US 450 11.08.1995 US 2161

(71) Applicant: ELI LILLY AND COMPANY Indianapolis, Indiana 46285 (US)

(72) Inventors:

 Basinski, Margret B. Indianapolis, Indiana 46219 (US)

Dimarchi, Richard D.
 Carmel, Indiana 46033 (US)

Flora, David B.
 Greenfield, Indiana 46140 (US)

Hale, John E.
 Fishers, Indiana 46038 (US)

Heath Jr., William F.
Fishers, Indiana 46038 (US)

Hoffmann, James A.
 Greenwood, Indiana 46143 (US)

Schoner, Brigitte E.
 Monrovia, Indiana 46157 (US)

(74) Representative: Tapping, Kenneth George et al Lilly industries Limited European Patent Operations Eri Wood Manor Windlesham Surrey GU20 6PH (GB)

(54) Anti-obesity proteins

(57) The present invention provides anti-obesity proteins, which when administered to a patient regulate fat tissue. Accordingly, such agents allow patients to overcome their obesity handicap and live normal lives with much reduced risk for type II diabetes, cardiovascular disease and cancer. The peptides are represented by mentioned DNA string or by analogs thereof:

Val Pro Ile Gln Lys Val Gln Asp Asp Thr Lys Thr Leu Ile Lys Thr 15

Ile Val Thr Arg Ile Asn Asp Ile Ser His Thr Gln Ser Val Ser Ser 25

Lys Gln Lys Val Thr Gly Leu Asp Phe Ile Pro Gly Leu His Pro Ile 45

Leu Thr Leu Ser Lys Het Asp Gln Thr Leu Ala Val Tyr Gln Gln Ile 50

Leu Thr Ser Het Pro Ser Arg Asn Val Ile Gln Ile Ser Asn Asp Leu 65

Glu Asn Leu Arg Asp Leu Leu His Val Leu Ala Phe Ser Lys Ser Cys 95

His Leu Pro Gln Ala Ser Gly Leu Glu Thr Leu Asp Ser Leu Gly Gly 110

Val Leu Glu Ala Ser Gly Tyr Ser Thr Glu Val Val Ala Leu Ser Arg 120

Leu Gln Gly Ser Leu Gln Asp Het Leu Trp Gln Leu Asp Leu Ser Pro 130

Gly Cys

BEST AVAILABLE COPY